

THREE NEW SPECIES OF MIRIDAE FROM NORTH AMERICA (HEMIPTERA).

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The species here described have been in the author's collection for some years but the miscellaneous description of species has always been deferred in favor of more important revisions of genera. The need for names in other publications, particularly the "Miridae of Illinois," requires that names be established.

***Neolygus carpini* n. sp.**

Runs to *ostryae* Knigt. in my key (Hem. Conn., 1923, p. 581) but distinguished by the smaller size and shorter, differently shaped prongs on the male genital claspers.

Male.—Length 4.7 mm., width 2 mm. Head: width .99 mm., vertex .346 mm. Rostrum, length 1.9 mm., extending slightly beyond hind margins of posterior coxae, yellowish, apex brownish. Antennae: segment I, length .65 mm., pale; II, 1.8 mm., pale, apical one-third black; III, 1.12 mm., yellowish, fuscous apically; IV, .69 mm., fuscous. Pronotum: length .95 mm., width at base 1.64 mm.; yellowish green and tinged with brown but without definite streaks or vittae. Scutellum yellowish brown, scarcely darker at the sides. Hemelytra yellowish translucent, clavus evenly shaded with brownish, apical area of corium with dark brown; cuneus uniformly translucent, scarcely tinged with yellowish. Membrane and veins rather uniformly fuscous brown. Body beneath pale to yellowish, a fuscous band along lateral margins of venter, also extending across pleura of the thorax. Legs yellowish to brown; femora uniformly brownish, without bands, although the apices are paler; tibiae pale yellowish, spines brown; tarsi brownish, apices fuscous.

Female.—Length 5 mm., width 2.16 mm. Head: width .96 mm., vertex .37 mm. Antennae: segment I, length .58 mm.; II, 1.86 mm., yellowish, apical one-third black; III, 1.08 mm.; IV, .69 mm. Pronotum: length .95 mm., width at base 1.73 mm. More robust than the male but very similar in color and pubescence.

Holotype: ♂, June 12, 1922, Faribault, Minnesota (H. H. Knight); author's collection. *Allotype*: same data as the type.

Paratypes: 5 ♂, 5 ♀, taken with the types. IOWA—♂, July 11, 25 ♂♀, July 12, 1927, on *Carpinus caroliniana*; 14 ♂♀, June 21, 1928, 2 ♀, June 14, 5 ♂, 4 ♀, June 18, 10 ♂♀, July 16, 1929, Ames (H. H. Knight); 2 ♂, June 11, 1929, Ames (H. B. Mills). ILLINOIS—♀♂, June 14, 1933, Dolson (Frison & Ross).

***Lygidea salicis* n. sp.**

Allied to *annexus* (Uhler) but differs in the longer second antennal segment and the shorter, more recumbent pubescence on antennae; segment II equal to (♀) or exceeding (♂) width of pronotum at base. Differs from *obscura* Reut. in the shorter rostrum.

Male.—Length 5.6 mm., width 2.2 mm. Head: width 1.21 mm., vertex .60 mm. Rostrum, length 1.77 mm., just attaining posterior margins of middle coxae, pale, apex black. Antennae: segment I, length .65 mm., black, slender apex pale; II, 1.99 mm., fusco-brownish, basal one-fourth black, pubescence rather short and recumbent; III, 1 mm., fuscous; IV, .91 mm., blackish. Pronotum: length 1.02 mm., width at base 1.8 mm.; disk punctate, transversely rugulose; black, collar except behind eyes, median line of disk, two blotches behind outer half of calli, disk of calli, narrow basal margin, dorsal margin and ventral one-third of propleura, pale. Scutellum pale, a wedge-shaped mark each side of median line, brownish black, mesoscutum black.

Hemelytra brownish black, embolium except apically, cuneus except reddish spot on apex, pale translucent. Membrane uniformly dark fuscous, paler bordering apex of cuneus, veins pale. Clavus and corium clothed with pale to silvery, somewhat sericeous pubescence. Ventral surface white to yellowish, a broad lateral, longitudinal stripe on thoracic pleura and sides of venter, reddish brown to black. Legs pale, hind femora with two, subapical reddish brown annuli, tibial spines yellowish, apical segment of tarsi fuscous.

Female.—Length 5.9 mm., width 2.3 mm. Head: width 1.25 mm., vertex .65 mm. Antennae: segment I, length .60 mm., black; II, 1.9 mm., pale, base and apex fuscous to black, more slender than in the male; III, 1.04 mm., fuscous; IV, .95 mm., blackish. Pronotum: length 1.08 mm., width at base 1.88 mm. Very similar to the male in color and pubescence, although more broadly pale on disk of pronotum.

Holotype: ♂, July 12, 1919, Hennepin Co., Minnesota (H. H.

Knight); author's collection. *Allotype*: same data as the type. *Paratypes*: 84 ♂♀, taken with the types on *Salix amygdaloides*. MINNESOTA—2 ♀, Aug. 20, 1920, 4 ♂, 4 ♀, Aug. 9, 1922, Two Harbors (H. H. Knight); ♀, Aug. 12, 1922, Beaver Dam, Cook Co. (H. H. Knight). MICHIGAN—♂, July 29, 1919, Gogebic Co. (T. H. Hubbell). ILLINOIS—♂♀, June 30, 1932, Galena (Dozier & Mohr), on *Salix*. NEW YORK—3 ♀, Aug. 1, 1913, Batavia (H. H. Knight); ♂, July 7, 1919, ♀, July 13, ♀, July 20, 1920, Cranberry Lake (C. J. Drake), on *Salix*. CANADA—♀, Prince Edward Co., Ontario (Brimley).

***Parthenicus nigrellus* n. sp.**

Distinguished from other members of the genus by the black color and pale second antennal segment.

Male.—Length 3.3 mm., width 1.6 mm. Head: width .73 mm., vertex .34 mm. Rostrum, length 1.4 mm., just attaining hind margins of posterior coxae. Antennae: segment I, length .39 mm., black; II, 1.18 mm., pale, tinged with reddish; clothed with pale and dusky pubescence; III, .91 mm., pale; IV, .60 mm., fuscous. Pronotum: length .60 mm., width at base 1.25 mm.

Form ovate, robust; color fuscous black with a tinge of red in the hypodermis which is more pronounced on ventral surface, tips of femora, and base and apex of cuneus; membrane uniformly fuscous, veins reddish. Legs black, tibiae pale except basal one-third, tarsi pale, apices fuscous. Clothed with pale to yellowish pubescence and intermixed with silvery, scale-like hairs. Genital claspers distinctive, the right clasper forming a V-shaped loop which turns back over middle of genital segment with spatulate apex.

Female.—Length 3.5 mm., width 1.7 mm. More robust than the male but very similar in form, color and pubescence.

Holotype: ♂, July 6, 1929, Ames, Iowa (H. H. Knight); author's collection. *Allotype*: ♀, June 14, 1932, College Station, Texas (H. G. Johnston). *Paratypes*: ♂, 2 ♀, June 11, 1934, Monticello, Illinois (Frison & DeLong).